

IN THE CLAIMS:

1. (Currently Amended) A head drum assembly for a tape player/recorder comprising:

a rotary drum, which rotatably supports a magnetic head for recording and reproducing information;

a shaft engaged in a central axial bore of the rotary drum;

a fixed drum fixedly mounted onto a lower part of the shaft parallel to the rotary drum;

a motor stator provided in the fixed drum; and

a motor rotor provided opposite to the motor stator, the motor rotor comprising a rotor case and a rotor magnet attached directly to the rotor case,

wherein the rotary drum comprises an inner surface facing the shaft and an outer circumferential surface opposite to the inner surface, and

the rotor case is directly bonded to the outer circumferential surface of the rotary drum.

2. (Original) The head drum assembly for a tape player/recorder according to claim 1, wherein the motor stator comprises:

a magnetic yoke; and

a stator coil, wherein a substantially constant first gap is maintained between the magnetic yoke and stator coil.

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3. (Original) The head drum assembly for a tape player/recorder according to claim 1, wherein a substantially constant second gap is maintained between the motor rotor and motor stator.

4. (Original) The head drum assembly for a tape player/recorder according to claim 3, wherein the substantially constant second gap is in the range of 0.3 mm to 0.4 mm.

5. (Original) The head drum assembly for a tape player/recorder according to claim 3, wherein the substantially constant second gap is about 0.36 mm.

6. (Original) The head drum assembly for a tape player/recorder according to claim 2, wherein the substantially constant first gap is within the range of 0 to 0.03 mm.

7. (Currently Amended) The head drum assembly for a tape player/recorder according to claim 2, ~~further comprising a rotor magnet, and~~ wherein a magnetizing force of the rotor magnet is controlled.

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8. (Original) The head drum assembly for a tape player/recorder according to claim 7, wherein the magnetic force of the rotor magnet is controlled to be lower than a conventional motor stator.

9. (Currently Amended) A method for manufacturing a head drum assembly for a tape player/recorder comprising:

fixedly mounting a fixed drum onto a lower part of a shaft engaged in a central axial bore of a rotary drum parallel to the rotary drum, wherein the fixed drum comprises a motor stator, and wherein the rotary drum rotatably supports a magnetic head for recording and reproducing information; and

connecting a motor rotor to the rotary drum,

wherein the rotary drum comprises an inner surface facing the shaft and an outer circumferential surface opposite to the inner surface, the motor rotor comprises a rotor case and a rotor magnet attached directly to the rotor case, and ~~wherein~~ the connecting comprises bonding a the rotor case of the motor rotor directly to the outer circumferential surface of the rotary drum.

10. (Original) The method for manufacturing a head drum assembly for a tape player/recorder according to claim 9, wherein the motor stator comprises:

a magnetic yoke; and

a stator coil, wherein a substantially constant first gap is maintained between the magnetic yoke and stator coil.

11. (Original) The method for manufacturing a head drum assembly for a tape player/recorder according to claim 9, wherein a substantially constant second gap is maintained between the motor rotor and motor stator.

12. (Original) The method for manufacturing a head drum assembly for a tape player/recorder according to claim 11, wherein the substantially constant second gap is in the range of 0.3 mm to 0.4 mm.

13. (Original) The method for manufacturing a head drum assembly for a tape player/recorder according to claim 11, wherein the substantially constant second gap G2 is about 0.36 mm.

14. (Original) The method for manufacturing a head drum assembly for a tape player/recorder according to claim 10, wherein the substantially constant first gap is within the range of 0 to 0.03 mm.

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15. (Currently Amended) The method for manufacturing a head drum assembly for a tape player/recorder according to claim 10, ~~wherein the head drum assembly further comprises a rotor magnet, and~~ wherein a magnetizing force of the rotor magnet is controlled.

16. (Original) The method for manufacturing a head drum assembly for a tape player/recorder according to claim 15, wherein the magnetic force of the rotor magnet is controlled to be lower than a conventional motor stator.

17. (Previously presented) The head drum assembly for a tape player/recorder according to claim 1, wherein the fixed drum is press-fitted onto the lower part the shaft.

18. (Previously presented) The method for manufacturing a head drum assembly for a tape player/recorder according to claim 9, wherein the fixedly mounting comprises press fitting the fixed drum onto the lower part of the shaft.

19. (Withdrawn) A head drum assembly for a tape player/recorder comprising:  
  
a rotary drum, which rotatably supports a magnetic head for recording and reproducing information;

a shaft engaged in a central axial bore of the rotary drum;

a fixed drum fixedly mounted onto a lower part the shaft parallel to the rotary drum;

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a motor stator provided in the fixed drum; and

a motor rotor provided opposite to the motor stator;

wherein the motor stator comprises a magnetic yoke and a stator coil which are sequentially stacked on the fixed drum with a substantially constant gap maintained between the magnetic yoke and the stator coil.

20. (Withdrawn) A method for manufacturing a head drum assembly for a tape player/recorder comprising:

fixedly mounting a fixed drum onto a lower part of a shaft engaged in a central axial bore of a rotary drum parallel to the rotary drum, wherein the rotary drum rotatably supports a magnetic head for recording and reproducing information;

sequentially stacking on the fixed drum a magnetic yoke and a stator coil with a substantially constant gap maintained between the magnetic yoke and the stator coil; and

connecting a motor rotor to the rotary drum.